



JENNIFER M. GRANHOLM  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
LANSING



STEVEN E. CHESTER  
DIRECTOR

**ETHANOL SYRUP EXEMPTION  
(ANAEROBIC DIGESTION)**

In accordance with the provisions of Section 11507 of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), and the rules promulgated under Part 115, specifically R 299.4119, syrup generated in the production of ethanol (Syrup) is granted a site/source-separated exemption by the authorized representative of the Director of the Michigan Department of Environmental Quality (MDEQ).

This exemption is subject to the following conditions:

1. This approval is limited to syrup that is produced from the production of ethanol using corn.
2. The Syrup shall only be used as a feed stock in an anaerobic digester that is operated in compliance with Part 55, Air Pollution Control, of the NREPA. Anaerobic digestion is the harnessed and contained, naturally occurring process of anaerobic decomposition. An anaerobic digester is an industrial system that harnesses these natural process to treat waste, produce biogas that can be used to power electricity generators, provide heat, and produce soil improving material.
3. Each generator intending to operate pursuant to this exemption shall notify the Director of the MDEQ, in writing, of his or her intent. Notification shall be sent to the Waste and Hazardous Materials Division (WHMD) District Office. A list of the District Offices is attached in Appendix A.
4. The notification to the WHMD shall include a management plan that must be approved by the MDEQ that describes how the material will be managed during storage (both on-site and off-site), processing, and transportation.
5. The Syrup shall not be stored in a manner constituting speculative accumulation per R 299.4119. The owner/operator of a site must be able to demonstrate compliance with this condition.
6. The Syrup shall not come into direct contact with surface water, groundwater, or wetland areas as defined by the NREPA, and the administrative rules promulgated thereunder, unless approved or permitted by the MDEQ.
7. Processing, storage, transporting, or use of the Syrup shall be managed in such a way to prevent nuisance conditions in violation of Part 115 and Part 55 or the rules promulgated under Part 55.

8. Vehicles used to transport the Syrup shall be licensed under Part 121, Liquid Industrial Wastes, of the NREPA.
9. The generator of the Syrup shall obtain a Site Identification Number in compliance with Section 12103(1)(b) of Part 121 and manage the Syrup pursuant to Part 121.
10. The owner of the anaerobic digester shall obtain a Site Identification Number in compliance with Section 12112(1)(a) of Part 121 and manage the Syrup pursuant to Part 121.
11. Storage of the Syrup, prior to use, shall be in a tank; a container; a surface impoundment that has been permitted under Part 31, Water Resources Protection, of the NREPA; or other similar structure that is approved by the Director of the MDEQ.
12. The Syrup shall be tested on a quarterly basis for the parameters listed below unless the MDEQ has approved an alternate time frame or modified list of parameters. The results shall be kept by the company for a period of three years and shall be made available to the MDEQ upon request.

<b>Solids and Nutrients</b>	<b>Toxicants</b>
Percent Dry Solids	Arsenic (milligrams/kilograms [mg/kg])
Percent Total Kjeldahl Nitrogen	Barium (mg/kg)
Percent Ammonium Nitrogen	Cadmium (mg/kg)
Percent Nitrate Nitrogen	Chromium (mg/kg)
Percent Phosphorus	Copper (mg/kg)
Percent Potassium	Lead (mg/kg)
Calcium (mg/kg)	Mercury (mg/kg)
Magnesium (mg/kg)	Molybdenum (mg/kg)
Sodium (mg/kg)	Nickel (mg/kg)
Chloride (mg/kg)	Selenium (mg/kg)
Sulfate (mg/kg)	Silver (mg/kg)
pH	Zinc (mg/kg)
5-Day Biochemical Oxygen Demand	Aluminum (mg/kg)
	Manganese
	Iron (mg/kg)
	Boron (mg/kg)
	Ethanol

13. The results of testing shall be submitted to each anaerobic digester using the Syrup.

14. By January 31<sup>st</sup> of each year, a report shall be submitted to the MDEQ that details the total volume of Syrup shipped and the location(s) where the Syrup was sent. The report shall be sent to:

Mr. Duane Roskoskey  
Storage Tank and Solid Waste Section  
Waste and Hazardous Materials Division  
Michigan Department of Environmental Quality  
P.O. Box 30241  
Lansing, Michigan 48909-7741

15. This approval shall immediately become void for any of the following reasons:


- a. The conditions of this approval are violated.
- b. Additional information demonstrates that the processing, use, or storage of the Syrup is causing environmental contamination.
- c. New state or federal regulations are promulgated that would cause this approval to become invalid.

Since the Syrup has been designated a site/source-separated material, any facility that processes the Syrup will not require a processing plant license pursuant to Part 115 provided they do not take a regulated solid waste and they operate in compliance with the conditions contained in this approval.

Violation of the conditions of this approval is subject to the enforcement provisions of Parts 55, 115, and 121 of the NREPA or other applicable state and federal laws/statutes.

STATE OF MICHIGAN  
Department of Environmental Quality

By: \_\_\_\_\_

  
George W. Bruchmann, Chief  
Waste and Hazardous Materials Division

Dated: \_\_\_\_\_

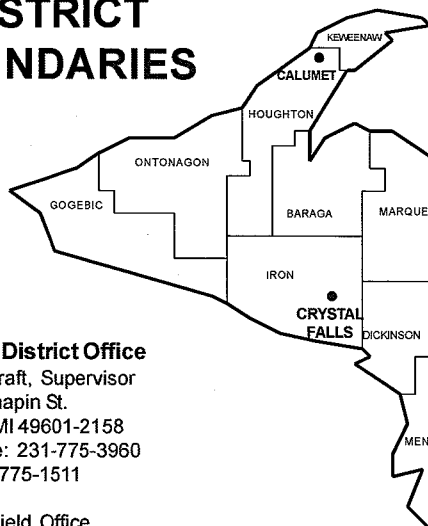
10-17-07

Attachment

# OFFICE LOCATIONS & DISTRICT BOUNDARIES



**Waste and Hazardous Materials Division**  
Michigan Department of Environmental Quality  
For pollution emergencies only: 1-800-292-4706  
[www.michigan.gov/deqwaste](http://www.michigan.gov/deqwaste)



## Cadillac District Office

Phil Roycraft, Supervisor  
120 W. Chapin St.  
Cadillac, MI 49601-2158  
Telephone: 231-775-3960  
Fax: 231-775-1511

## Gaylord Field Office

2100 West M-32  
Gaylord, MI 49735  
Telephone: 989-731-4920  
Fax: 989-731-6181

## Grand Rapids District Office

Amy Lachance, Supervisor  
350 Ottawa, NW Unit 10  
Grand Rapids, MI 49503-2341  
Telephone: 616-356-0500  
Fax: 616-356-0202

## Jackson District Office

Lee Carter, Supervisor (Tu, Th)  
301 E. Louis Glick Highway  
Jackson, MI 49201-1556  
Telephone: 517-780-7690  
Fax: 517-780-7855

## Kalamazoo District Office

Fred Sellers, Supervisor  
7953 Adobe Road  
Kalamazoo, MI 49009  
Telephone: 269-567-3500  
Fax: 269-567-9440

## Lansing District Office

Lee Carter, Supervisor (M, W, Fr)  
Constitution Hall  
North Tower, 4th Floor  
(525 W. Allegan St.)  
P.O. Box 30242  
Lansing, MI 48909  
Telephone: 517-335-6010  
Fax: 517-241-3571

## Saginaw Bay District Office

Terry Walkington, Supervisor  
503 N. Euclid Ave., Suite 1  
Bay City, MI 48706-2965  
Telephone: 989-686-8025  
Fax: 989-684-9799

## Southeast MI District Office

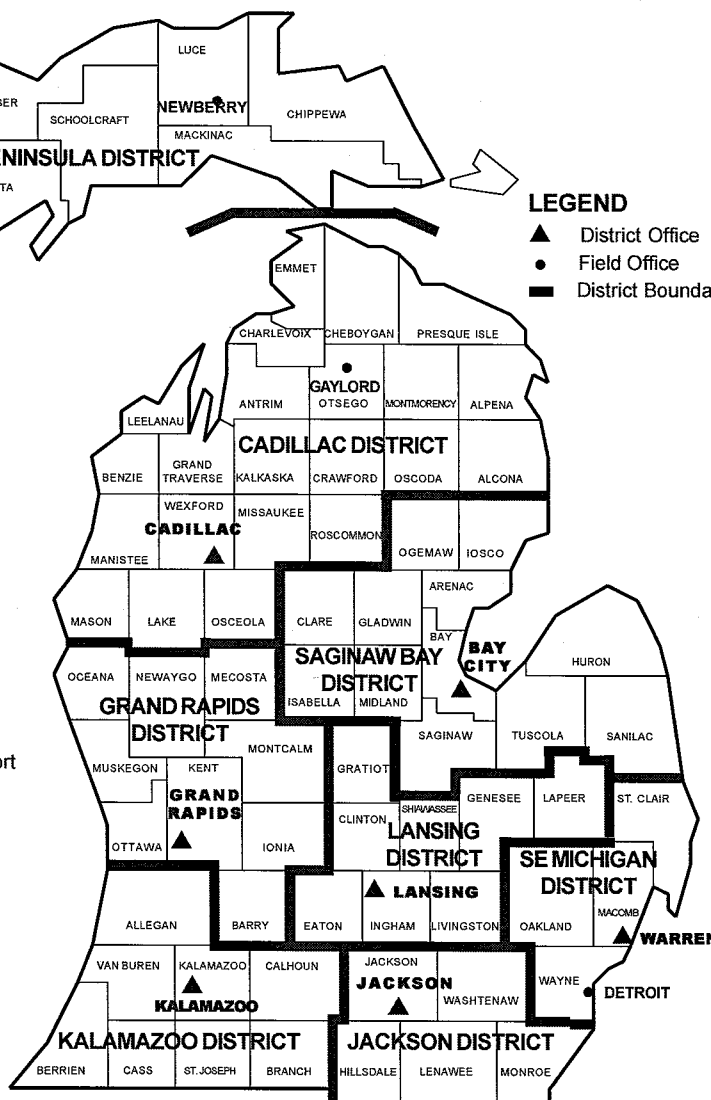
Larry AuBuchon, Solid Waste Program/Tire Program (Acting) Supervisor  
Larry AuBuchon, Hazardous Waste/Tank Program Supervisor  
27700 Donald Court  
Warren, MI 48092  
Telephone: 586-753-3700  
Fax: 586-753-3859

Detroit Field Office (covers  
Detroit, Highland Park,  
Hamtramck)

Cadillac Place  
3058 W. Grand Boulevard  
Suite 2-300  
Detroit, MI 48202  
Telephone: 313-456-4700  
Fax: 313-456-4662

## Upper Peninsula District Office

Rob Schmeling, Supervisor  
K.I. Sawyer International Airport  
and Business Center  
420 Fifth Street  
Gwin, MI 49841  
Telephone: 906-346-8300  
Fax: 906-346-4480



## LEGEND

- ▲ District Office
- Field Office
- District Boundaries

## MAIN OFFICE

**DEQ Waste and Hazardous Materials Division**  
**George Bruchmann, Chief**

Constitution Hall, North Tower, Atrium  
P.O. Box 30241 525 W. Allegan St.  
Lansing, MI 48909-7741 Lansing, MI 48933  
Telephone: 517-335-2690  
Fax: 517-373-4797

## For general DEQ information

DEQ Environmental Assistance Center  
**Telephone: 1-800-662-9278**  
Fax: 1-517-241-0673  
E-mail: [DEQ-EAD-env-assist@michigan.gov](mailto:DEQ-EAD-env-assist@michigan.gov)